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June 1965

PHOTOGRAPHIC INTERPRETATION REPORT

HF COMMUNICATIONS FACILITIES, UGOLNYY MRBM LAUNCH SITE, USSR

CIA

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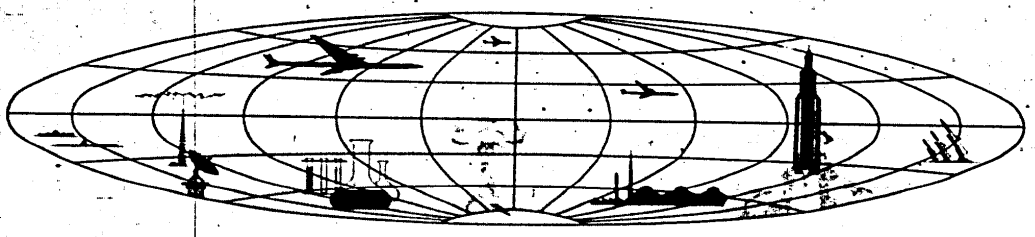
NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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HF COMMUNICATIONS FACILITIES, UGOLNYY MRBM LAUNCH SITE, USSR

A small high-frequency (HF) communications facility has been located at 64-47N 177-56E (Figure 1) on the southeast side of the Ugolnyy MRBM Launch Site Support Facility and 1 nautical mile west of the previously reported fishbone antenna communications facility. [1] The newly identified facility (Figure 2) contains 1 HF rhombic and 1 horizontal dipole antenna together with a probable control building and 2 other small buildings. Antenna dimension and orientation measurements have been determined where possible, and this information (including possible correspondents) is contained in Table 1.

The rhombic antenna appears to be of single configuration with 4 supporting masts and no double end-poles. Although no dissipation line was actually observed, it seems most likely that this is a transmitting rhombic in view of the fact that the MRBM site already has a receiving capability at the fishbone facility.

In regard to the fishbone facility, inasmuch as the earlier report had cautioned against the possibility of mensural error resulting from

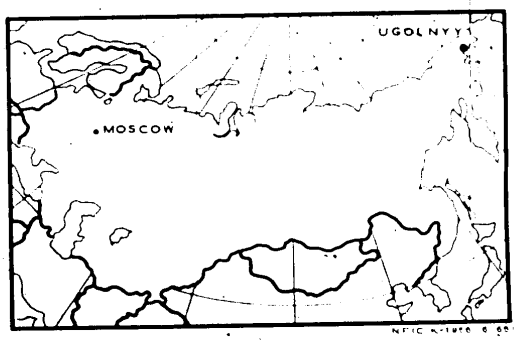

FIGURE 1. LOCATION MAP.

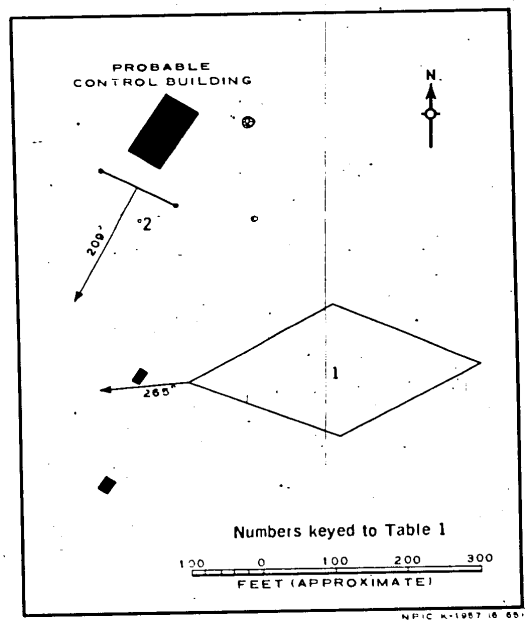

FIGURE 2. LAYOUT OF RHOMBIC ANTENNA FACILITY, UGOLNYY.

Table 1. Technical Data for Antennas at Rhombic Facility (Keyed to Figure 2)

Item No	Type	Major Axis (ft±5%)	Minor Axis (ft±5%)	Leg Length (ft±5%)	Pole Height (±10ft)	Tilt Angle (±3°)	Azimuth (±3°)	Possible Correspondents
1	Rhombic (HF)	395	200	220	60	64	265	Provideniya, Svobodnyy, Markovo, Okhotsk
2	Horizontal dipole	115*	NA	NA	Unk	NA	209	Vankarem, Egvekinot

*Distance between end-poles.

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the obliquity and quality of the then-available photography, the facility was reanalyzed utilizing the referenced better quality and more recent photographic coverage. The facility (Figure 3) is now observed to consist of 4 fishbone antennas (paired for diversity reception) and 2 probable day-night vee antenna combinations, in addition to the control building and 4 small support buildings. The new dimensions and orientations are given in Table 2.

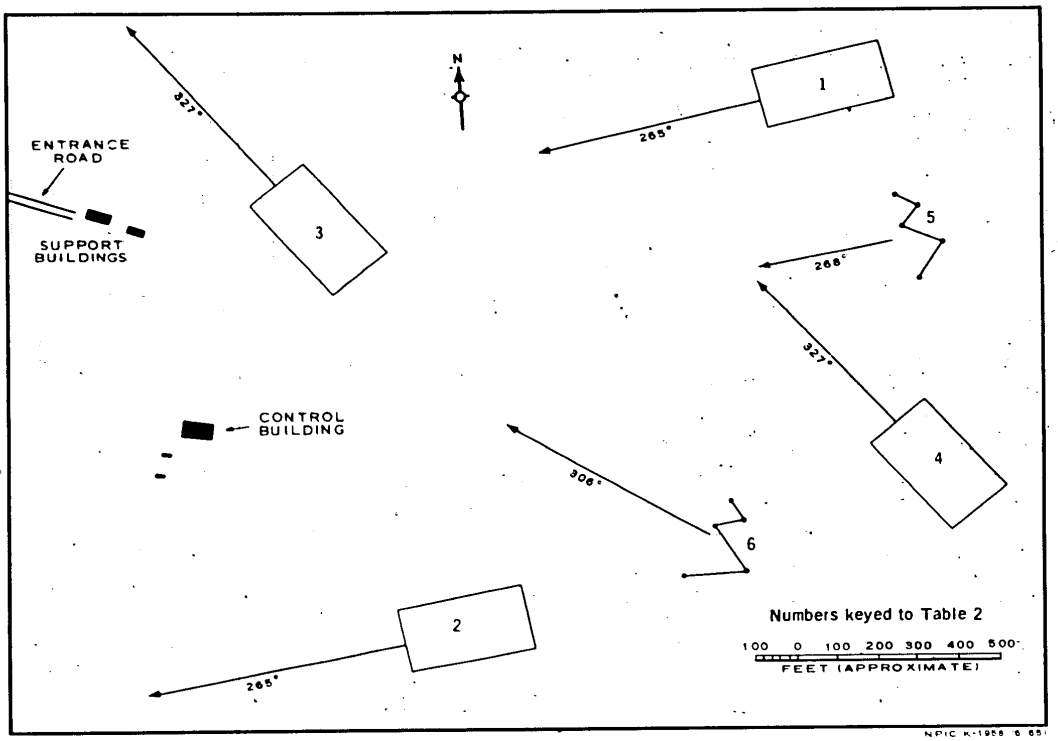

FIGURE 3. LAYOUT OF FISHBONE ANTENNA FACILITY, UGOLNYY.

Table 2. Technical Data for Antennas at Fishbone Facility (keyed to Figure 3)

Item No	Type	Length (ft ±5*)	Width (ft ±5*)	Pole Height (±10 ft)	Azimuth (±3°)	Possible Correspondents
1 & 2	5-3-3-5 fishbones (paired)	315	[redacted]	50	265	Provideniya, Svobodnyy, Markovo, Okhotsk
3 & 4	5-3-3-5 fishbones (paired)	315		50	327	Pevek, Dikson, Vorkuta, Volgograd, KY VMTC area
5	Prob day-night V combination	120* 55**	NA	55 (night) 40 (day)	268	Markovo
6	Prob day-night V combination	120* 55**	NA	55 (night) 40 (day)	306	Mukhomornoye

*Leg length of prob night antenna.
**Leg length of prob day antenna.

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REFERENCES

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MAPS OR CHARTS

DIA. US Air Target Chart, Series 200, Sheet 0075-22HL, 3d ed, Mar 64, scale 1:200,000 (SECRET)

DOCUMENT

1. NPIC. R-753 64, *Communications Antennas, Anadyr-Ugolnyy Area, USSR*, Aug 64 (TOP SECRET RUFF)

REQUIREMENT

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NPIC PROJECT

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